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$$p(F) = \frac{6 \times 3}{36} = \boxed{\frac{1}{2}}$$

$$p(G) = \frac{1 \times 3}{36} = \boxed{\frac{1}{12}}$$

$$p(H) = \frac{5 \times 3}{36} = \boxed{\frac{5}{12}}$$

$$p(K) = \frac{2 \times 6}{36} = \boxed{\frac{1}{3}}$$

$$p(H \cap K) = \frac{2 \times 3}{36} = \boxed{\frac{1}{6}}$$

alors :

$$p(H \cup K) = p(H) + p(K) - p(H \cap K) = \boxed{\frac{7}{12} = p(L)}$$

2) $\text{Card}\,\Omega = 6^4$

$$p(S=0) = \frac{1^4 + 1^2 \times 2 \times 3 \times \frac{4!}{2!} + 2^2 \times 3^2 \times \frac{4!}{2! \times 2!}}{6^4}$$

$$= \boxed{\frac{289}{1296}}$$

$$p(P=0) = 1 - p(P \neq 0) = 1 - \frac{5^4}{6^4} = \boxed{\frac{671}{1296}}$$

Qarray.tn -Aqra Blech- Qarray.tn -Aqra Blech- Qarray.tn

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